



*Commonwealth of Virginia*

*VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY*

SOUTHWEST REGIONAL OFFICE  
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Travis A. Voyles  
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director  
(804) 698-4020

Jeffrey Hurst  
Regional Director

April 21, 2023

Mr. Matthew Lester  
General Manager  
Jewell Coke Company, L.P.  
1034 Dismal River Road  
Oakwood, Virginia 24631

Location: Buchanan County, Virginia  
Registration No.: 10200

Dear Mr. Lester:

Attached is a renewal Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 Article 1 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning April 21, 2023.

In the course of evaluating the application and arriving at a final decision to issue this permit, the Department of Environmental Quality (DEQ) deemed the application complete on October 3, 2022, and solicited written public comments by placing a newspaper advertisement in the *Virginia Mountaineer* on February 2, 2023. The thirty-day required comment period, provided for in 9VAC5-80-270 expired on March 6, 2023.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

This permit approval to operate shall not relieve Jewell Coke Company, L.P. of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with

Mr. Matthew Lester  
April 21, 2023  
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the DEQ within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

Michael S. Rolband, Director  
Department of Environmental Quality  
P. O. Box 1105  
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact me at (276) 608-8506.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rob Feagins", is centered below the word "Sincerely,".

Rob Feagins  
Air Permit Manager

GRF/ABM/10200VA.FNL-23

Attachment: Permit

cc: Director, OAPP (electronic file submission)  
Manager, Data Analysis (electronic file submission)  
Office of Permits and Air Toxics (3AP10), U.S. EPA, Region III (electronic file submission)



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Jeffrey Hurst  
Regional Director

Federal Operating Permit  
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated, or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Jewell Coke Company, L.P.  
Facility Name: Jewell Coke Company, L.P.  
Facility Location: 1034 Dismal River Road  
Oakwood, Virginia 24631

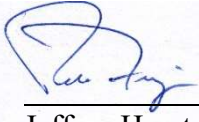

Registration Number: 10200  
Permit Number: SWRO-10200

This permit includes the following programs:

Federally Enforceable Requirements from the Clean Air Act.

April 21, 2023  
Effective Date

April 20, 2028  
Expiration Date

Jeffrey Hurst, Regional Director

April 21, 2023  
Signature Date

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ATTACHMENT A – Graph of Dryer Hours, Coal Sulfur, and Charge Tonnage

## Facility Information

### Permittee

Jewell Coke Company, L.P.  
1034 Dismal River Road  
Oakwood, Virginia 24631

### Responsible Official

Mr. Matthew Lester  
General Manager

### Facility

Jewell Coke Company, L.P.  
1034 Dismal River Road  
Oakwood, Virginia 24631

### Contact Person

Ms. Sally Ketron  
Environmental Manager  
276-935-8810

County-Plant Identification Number: 51-027-00004

Facility Description: NAICS 324199 - Jewell Coke Company, L.P., is a non-recovery, metallurgical coke production facility located on State Route 638, 3.6 miles east of Vansant along Dismal Creek in Buchanan County, Virginia.

Coal is transferred from the adjacent Dismal River Terminal, LLC coal processing facility (DEQ air registration number 10818) and sent to the thermal dryer or stored in Coal Storage Pile 1 (Unit Reference 2) and/or Coal/Coke Storage Pile 2 (Unit Reference 3). Dried coal goes to a bin that feeds two parallel coal crushers (Unit Reference 25). The crushers are controlled by a baghouse (Device Reference 25). Only one crusher is used at a time - the other serves as an online spare. The coal bin and crushers are completely enclosed in a building. Coal is then transferred through a series of open and enclosed belts and conveyors (Unit Reference 4) to the operating 142 Thompson sole flue non-recovery coke ovens. The ovens are charged (Unit Reference 5) with coal while the backdraft emissions are collected by baghouses (Device Reference 3, 4a, 4b, and 5) located on the pusher/charger machines associated with batteries BC, DE, and FG. The waste gas from the coking process (Unit Reference 1) in the ovens is controlled using common tunnel afterburners (Device Reference 2). Some of the waste gas from the thermal dryer ovens is sent to the thermal dryer (Unit Reference 13) to dry coal. Emissions from the thermal dryer are controlled by a Research Cottrell venturi scrubber (Device Reference 1). The coke is then pushed (Unit Reference 6) out of the ovens into hot cars located under an enclosure (Device Reference 10). The coke is then taken via the hot cars to the quench tower equipped with baffles (Device Reference 6 and 7) where cleaned water is dumped over the hot

coke (Unit Reference 7). The coke is then dumped from the hot cars onto the coke wharf where a series of open and enclosed belts (Unit Reference 8) transfers the coke to the coke processing plant.

Once the coke is received at the coke processing plant, a series of vibrators and screens separates the coke into appropriate sizes (Unit Reference 9). Most of the coke is loaded out into railcars (Unit Reference 09b). A small amount of coke may be placed in a bin for temporary storage and loaded from the bin into trucks. A baghouse (Device Reference BH01) is used to control particulate emissions from the coke processing plant. Periodically, the material collected by the coke processing plant baghouse is mixed with the breeze produced by the coke processing plant in the Coal Coke and Breeze Storage Pile (Unit Reference 30a). Coke from the coke processing plant may also be taken to the Main Coke Storage Pile (Unit Reference 11) or to VP-1. Coke from the piles may be taken and piled near the coke wharfs (Unit Reference 12) and blended back into the coke handling system. Quench pit solids removed from the bottom of the quench pit ponds may also be recovered and piled near the coke wharfs (Unit Reference 14) and blended back into the coke handling system.

The Dismal River Terminal, LLC facility is located on property adjacent to the Jewell Coke Company facility and belongs to the same industrial grouping as the Jewell Coke Company facility, and the two facilities are under common control. Therefore, the Dismal River Terminal facility and the Jewell Coke Company facility together are considered a single stationary source subject to Title V permitting, and all federally enforceable requirements applicable to the Dismal River Terminal facility are included in the renewal Title V operating permit.

Dismal River Terminal County-Plant Identification Number: 51-027-00071

Facility Description: NAICS 324199 – Dismal River Terminal, LLC screens, crushes and blends clean coal received from different mining operations. The blended coal is then transferred to the adjacent Jewell Coke Company facility where it is used to produce coke. The facility received a minor NSR permit in 2020 for the addition of a rod mill operation to reduce the size of waste coke produced at the adjacent Jewell Coke Company facility to breeze (coke reduced in size) for use in the coal blend to produce foundry coke.

## Emission Units

Process equipment to be operated at the Jewell Coke Company facility (DEQ air registration no. 10200) consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description***	PCD ID	Pollutant Controlled	Applicable Permit Date
01*	S-2 through S17	143 Thompson Sole Flue non-recovery coke ovens (only 142 ovens actually constructed and operating)	45-55.1 tons/oven/48hr input**	Common tunnel afterburners	02	PM, PM10, PM2.5, VOC, CO	NSR Permit dated 5/18/2022
04	F2	Coal handling	1200 tons/hr input	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
05	S-18, S-19a, S-19b, S-20	Coal charging	1200 tons/hr input	(4) Donaldson Torit baghouses, or equivalent	03, 04a, 4b, 05	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
06	F3	Coke pushing	825 tons/hr input	Shed	10	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
07	S-21, S-22	Coke quenching	825 tons/hr input	Quench tower baffles	06, 07	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
08	F6	Coke handling	825 tons/hr input	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09	S-29a	Coke processing and screening	825 tons/hr	Donaldson Torit baghouse, or equivalent	BH01	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09a	F07a	Oversize coke recirculating conveyor	150 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09b	F07b	Coke load-out	600 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09c	F07c	One breeze bunker transfer conveyor	100 tons/hr	Partial enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09d	F07d	One coke sample conveyor	0.1 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09e	F07e	One coke transfer conveyor	825 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
09f	F07f	One coke transfer conveyor	825 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022



<b>Emission Unit ID</b>	<b>Stack ID</b>	<b>Emission Unit Description</b>	<b>Size/Rated Capacity</b>	<b>Pollution Control Device (PCD) Description***</b>	<b>PCD ID</b>	<b>Pollutant Controlled</b>	<b>Applicable Permit Date</b>
13	S-1	Heyl & Patterson Model 135 thermal dryer	600 tons/hr	Research Cottrell venturi scrubber	01	PM, PM10, PM2.5, SO2	NSR Permit dated 5/18/2022
25a	F18a	Two Pennsylvania coal crushers	400 tons/hr, each	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
25b	F18a	One 36"x135' coal belt conveyor	400 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
25c	S-25	One feed bin with coal feeders	150 tons	Bin vent	25	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
25d	F18a	One 36"x85' crushed coal and coke belt conveyor	400 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
25e	F18a	One 36"x200' crushed coal and coke belt conveyor	400 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
25f	F-2	Bypass conveyor (loading)	400 tons/hr	Enclosure	---	PM, PM10, PM2.5	---
25g	F-2	Bypass conveyor (discharge)	400 tons/hr	---	---	---	---
25h	F-2	Coal load-out conveyor (loading)	400 tons/hr	Enclosure	---	PM, PM10, PM2.5	---
25i	F-2	Coal load-out conveyor (discharge)	400 tons/hr	---	---	---	---
25j	F-2	Truck load-out	400 tons/hr	---	---	---	---
30a	---	Coal/coke breeze storage pile	825 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
MS1, MS2, MS3	---	Mobile/Stationary screens with conveyor	772 tons/hr, each	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
SP	---	Foundry coke storage piles	---	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
TCS	---	Screened coke storage piles	---	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 5/18/2022
IC-BC1	---	Emergency generator diesel engine on old PCM 3 B/C	800 HP (545 kW)	---	---	---	---
IC-DE	---	Emergency generator diesel engine on PCM 2 D/E	800 HP (600 kW)	---	---	---	---

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description***	PCD ID	Pollutant Controlled	Applicable Permit Date
IC-FG	---	Emergency generator diesel engine on PCM 3 F/G	800 HP (600 kW)	---	---	---	---
IC-BC2	---	Emergency generator diesel engine on new PCM 3 B/C	800 HP (500 kW)	---	---	---	---

The Size/Rated capacity is provided for informational purposes only and is not an applicable requirement.

\*Oven Batteries 3B, 3C, 2D, 2E, 3F, and 3G.

\*\*Charging rate may vary.

\*\*\*Wet suppression includes processing and handling of wet material.

Process equipment to be operated at the Dismal River Terminal facility (DEQ air registration no. 10818) consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
T-MMTP	---	One transfer pipe to the Marcy rod mill feed bin	45 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-MMFB	---	One Marcy rod mill feed bin	45 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-MMSC	---	One Marcy mill screw conveyor	45 tons/hr	Enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
---	---	One 24" belt conveyor	45 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-42E	---	One coke breeze/coal hopper with 48" feed conveyor (Hopper/Feeder #5)	500 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-MS4	---	Stationary/Mobile coke screener	772 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-RM1	RMV1	Eirich Group Rod Mill (8.5' dia. x 15' length)	45 tons/hr	Full enclosure and baghouse	RMBH1	PM, PM10, PM2.5	NSR Permit dated 6/17/2022

<b>Emission Unit ID</b>	<b>Stack ID</b>	<b>Emission Unit Description</b>	<b>Size/Rated Capacity</b>	<b>Pollution Control Device (PCD) Description*</b>	<b>PCD ID</b>	<b>Pollutant Controlled</b>	<b>Applicable Permit Date</b>
T-RM2	RMV2	Marcy Rod Mill (5' dia. x 10' length)	45 tons/hr	Cyclone with cartridge filter exhaust	RMBH2	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-CR	---	Roll crusher	45 tons/hr	Full enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-CL	---	Mobile stacker conveyor	800 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-SP2	---	Coke stockpiles	---	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-49	---	Radial stacker (manufactured 2016)	1,150 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-42A – D	---	(4) Reclaim hoppers & feeders	500 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-43	---	Reclaim conveyor	500 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-48	---	Transfer Belt #1	500 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-22	---	(2) Coal storage bins	800 tons/hr	Partial enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-23, T-24, T-26, T-27 & T-29	---	(5) Clean coal conveyor belts	800 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-25	---	Clean coal screen	800 tons/hr	Full enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-CC2	---	Clean coal crusher	500 tons/hr	Full enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-CC2A	---	Jeffrey 56 FT hammer mill crusher (Hillside Crusher)	500 tons/hr	Full enclosure	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-31	---	Belt conveyor connecting transfer belt to stacker belt, manufactured June 2012	650 tons/hr	Partial enclosure and wet coal	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
T-32	---	Belt conveyor connecting transfer belt to belt No. 5, manufactured June 2012	650 tons/hr	Partial enclosure and wet coal	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022

<b>Emission Unit ID</b>	<b>Stack ID</b>	<b>Emission Unit Description</b>	<b>Size/Rated Capacity</b>	<b>Pollution Control Device (PCD) Description*</b>	<b>PCD ID</b>	<b>Pollutant Controlled</b>	<b>Applicable Permit Date</b>
---	---	(8) coal storage bins	1,150 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
---	---	Coal sampler	1,150 tons/hr	---	---	---	NSR Permit dated 6/17/2022
---	---	Various conveyors	1,150 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
---	---	Working stockpiles and refuse storage	1,150 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022
---	---	Clean coal load-out line (return from coke plant)	800 tons/hr	Wet suppression	---	PM, PM10, PM2.5	NSR Permit dated 6/17/2022

The Size/Rated capacity is provided for informational purposes only and is not an applicable requirement.

\*Wet suppression includes processing and handling of wet material.

## **Coking Equipment Requirements - (Emission Unit ID No. 01, 05, 06, 07, 08, and 13)**

### **Limitations**

1. Coking Equipment Requirements - Particulate matter, VOC, and CO emissions from all of the ovens (01) at the facility shall be controlled by sole flues, common waste heat tunnels/afterburners, and good combustion practices. The coke ovens and appurtenances shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 5 of the 5/18/2022 NSR permit)
2. Coking Equipment Requirements - Particulate matter emissions from pushing coke (06), hot coke handling (08), and coke quenching (07) shall be controlled by a coke side enclosure and a baffled quench tower using cleaned water and freshwater make-up. The coke side enclosure and quench tower shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 6 of the 5/18/2022 NSR permit)
3. Coking Equipment Requirements - The backdraft fugitive emissions from the charging (05) of each of the ovens at Batteries 3B, 3C, 2D, 2E, 3F, and 3G shall be controlled by a collection apparatus (hood or equivalent) utilizing a Donaldson-Torit cartridge filtration system or equivalent on the pushing/charging machines. The control system(s) shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 9 of the 5/18/2022 NSR permit)
4. Coking Equipment Requirements - At no time shall more than two (2) pushing and charging machines service Batteries 3B and 3C. In addition, only one (1) pushing and charging machine may be actively pushing and/or charging at any given time on Batteries 3B and 3C.  
(9VAC5-80-110 and Condition 12 of the 5/18/2022 NSR permit)
5. Coking Equipment Requirements - Hourly emissions from the operation of the coke ovens (01) at the facility shall not exceed the limits as shown in the table below, depending on the number of ovens in operation. When charge tonnage exceeds 45 tons in one or more ovens, one or more ovens in Battery 3B shall be shutdown, according to the table shown below.

#### **Battery 3B Oven Limits**

<b>Charge (tons)</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>Part.</b>	<b>PM<sub>10</sub></b>	<b>Lead</b>
45.0	10.0	0.94	1.4	1.4	0.01

#### **Battery 3C, 2D, 2E, 3F, 3G Oven Limits**

<b>Operating Ovens</b>			<b>New Oven Limits (lb/hr/oven)</b>					
<b>3B</b>	<b>New</b>	<b>Total</b>	<b>Tons</b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>Part.</b>	<b>PM<sub>10</sub></b>	<b>Lead</b>
26	116	142	45.0	10.0	0.94	0.92	0.92	0.01
25	116	141	45.4	10.1	0.95	0.93	0.93	0.01

Operating Ovens			New Oven Limits (lb/hr/oven)					
3B	New	Total	Tons	SO <sub>2</sub>	NO <sub>x</sub>	Part.	PM10	Lead
24	116	140	45.8	10.2	0.95	0.94	0.94	0.01
23	116	139	46.2	10.3	0.96	0.95	0.95	0.01
22	116	138	46.6	10.2	0.95	0.94	0.94	0.01
21	116	137	46.9	10.4	0.98	0.98	0.98	0.01
20	116	136	47.3	10.5	0.99	0.99	0.99	0.01
19	116	135	47.7	10.6	0.99	1.00	1.00	0.01
18	116	134	48.1	10.7	1.00	1.01	1.01	0.01
17	116	133	48.5	10.8	1.01	1.02	1.02	0.01
16	116	132	48.9	10.9	1.02	1.04	1.04	0.01
15	116	131	49.3	10.9	1.03	1.05	1.05	0.01
14	116	130	49.7	11.0	1.03	1.06	1.06	0.01
13	116	129	50.0	11.1	1.04	1.07	1.07	0.01
12	116	128	50.4	11.2	1.05	1.08	1.08	0.01
11	116	127	50.8	11.3	1.06	1.10	1.10	0.01
10	116	126	51.2	11.4	1.07	1.11	1.11	0.01
9	116	125	51.6	11.5	1.07	1.12	1.12	0.01
8	116	124	52.0	11.5	1.08	1.13	1.13	0.01
7	116	123	52.4	11.6	1.09	1.14	1.14	0.01
6	116	122	52.8	11.7	1.10	1.15	1.15	0.01
5	116	121	53.1	11.8	1.11	1.17	1.17	0.01
4	116	120	53.5	11.9	1.12	1.18	1.18	0.01
3	116	119	53.9	12.0	1.12	1.19	1.19	0.01
2	116	118	54.3	12.1	1.13	1.20	1.20	0.01
1	116	117	54.7	12.1	1.14	1.21	1.21	0.01
0	116	116	55.1	12.2	1.15	1.23	1.23	0.01

The hourly emission limits shown above are maximum per oven limits based on the number of ovens operating. Compliance with these emission limits shall be as stated in Condition 27 of this permit. It shall in no way be construed that operation of the facility within the above stated hourly limits implies source compliance on an annual basis. Actual annual emission limits are based on the total allowable coal consumption as outlined in Condition 8, and the total emissions as outlined in Condition 6.  
 (9VAC5-80-110, 9VAC5-50-180, and Condition 14 of the 5/18/2022 NSR permit)

6. Coking Equipment Requirements - Total plant-wide emissions from the operation of the thermal dryer (13) and 143 ovens (01) at the facility, while consuming coal as outlined in Condition 8 of this permit, shall not exceed the limitations specified below, calculated monthly as the sum of each consecutive 12-month period:

Particulate Matter	553.3 tons/yr
PM10	553.3 tons/yr
Sulfur Dioxide (SO <sub>2</sub> )	5086.8 tons/yr
Nitrogen Oxides (NO <sub>x</sub> )	520.8 tons/yr
Lead	5.2 tons/yr

At no time shall there be more than 143 ovens in operation at the facility.  
(9VAC5-80-110 and Conditions 15 and 21 of the 5/18/2022 NSR permit)

7. Coking Equipment Requirements - Backdraft fugitive emissions from the operation of the replacement coal pushing/charging machine for coke oven Batteries 3B and 3C shall not exceed the limits specified below:

Particulate Matter/PM10	4.60 lb/hr	2.59 tons/yr
PM2.5	4.60 lb/hr	2.59 tons/yr
Nitrogen Oxides (NO <sub>x</sub> )	1.30 lb/hr	0.71 tons/yr
Carbon Monoxide (CO)	1.30 lb/hr	0.71 tons/yr
Volatile Organic Compounds (VOC)	0.90 lb/hr	0.51 tons/yr

Compliance with these emission limits shall be as stated in Conditions 3 and 8 of this permit.

(9VAC5-80-110 and Condition 19 of the 5/18/2022 NSR permit)

8. Coking Equipment Requirements - The plant-wide coking process shall consume no more than the amount of coal per year specified by the following equation (and illustrated graphically in Attachment A to this permit), calculated monthly as the sum of each consecutive 12-month period:

$$\text{Max. coal charge (T/yr)} = (9.92 \times \text{Dryer hours per yr}) + [839,822/(\%S)]$$

In no event shall the coal charged to the ovens (01) exceed 1,041,510 tons per year.

The formula in this condition is valid for certain ranges of values for sulfur content and dryer (13) operating hours, as illustrated in the graphical representation in Attachment A. At conditions where actual operating parameters are outside the illustrated ranges and the formula produces a calculated tonnage in excess of 1,041,510, the limitation of 1,041,510 prevails and the resultant formula-calculated tonnage is not relevant to compliance with the condition. The express purpose of this condition is to allow flexibility for the source to operate under conditions of varying coal sulfur content and dryer operating hours, and still be able to process 1,041,510 tons per year of coal. The formula in this condition allows the source to, for example, process coal with up to 0.88 weight percent sulfur and either reduce overall coal consumption or increase dryer operating hours, or a balance of the two. It is also implicit in this permit condition that the source could process up to 1,041,510 tons of coal per year, provided that they comply with the coal sulfur content limit, permit sulfur dioxide limits, etc.

(9VAC5-80-110 and Condition 26 of the 5/18/2022 NSR permit)

9. Coking Equipment Requirements - Visible emissions from all coke oven exhaust stacks at the facility, and the charging of all ovens at the facility, shall not exceed twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.  
(9VAC5-80-110 and Condition 28 of the 5/18/2022 NSR permit)

10. Coking Equipment Requirements - Visible emissions from each backdraft filter exhaust on pushing/charging machines shall not exceed ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9VAC5-80-110 and Condition 30 of the 5/18/2022 NSR permit)
11. Coking Equipment Requirements - The permittee shall prepare a written emission control work practice plan for controlling emissions from each coke oven battery 2D, 2E, 3B, 3C, 3F, and 3G. The following provisions, at a minimum, shall be addressed in the plan:
  - a. An initial and refresher training program for all coke plant operating personnel with responsibilities that impact emissions, including contractors, in job requirements related to emission control. The training program must include:
    - (1) A list, by job title, of all personnel that are required to be trained and the emission points associated with each job title;
    - (2) An outline of the subjects to be covered in the initial and refresher training for each group of personnel;
    - (3) A description of the training methods;
    - (4) A statement of the duration of initial training and the duration and frequency of refresher training;
    - (5) A description of the methods to be used at the completion of all training to demonstrate successful completion; and
    - (6) A description of the procedure to be used to document performance of plan requirements pertaining to daily operation of the coke oven battery and its emission control equipment.
  - b. Procedures for controlling emissions from the coke oven batteries including:
    - (1) Procedures for charging coal into the oven;
    - (2) Procedures for the capture and control of charging emissions from Batteries 2D, 2E, 3C, 3F, and 3G;
    - (3) Procedures for cleaning coke from the door sill area for both sides of the battery after completing the pushing operation and before replacing the coke oven door;
    - (4) Procedures for cleaning coal from the door sill area after charging and before replacing the push side door;
    - (5) Procedures for filling gaps around the door perimeter with sealant material, if applicable, and
    - (6) Procedures for detecting and controlling emissions from smoldering coal.
    - (7) Procedures for maintaining, for each emission point subject to visible emission limitations under Subpart L, a daily record of the performance of plan requirements pertaining to the daily operation of the coke oven battery and its emission control equipment, including:



- (a) Procedures for recording the performance of such plan requirements; and
- (b) Procedures for certifying the accuracy of such records by the permittee.

The permittee shall revise the emissions work practice control plan in accordance with requirements of 40 CFR 63.306(d). Compliance with the work practice emission control plan is to be determined based on review of records and inspections.  
(9VAC5-80-110, 40 CFR 63.306(b)(1) and (6), and 40 CFR 63.309(g))

12. Coking Equipment Requirements - The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions from Battery 3B that exceed any of the following emission limitations or requirements:
  - a. For coke oven doors;
    - (1) 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); or
    - (2) The permittee shall monitor and record, once per day for each day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under negative pressure. Operation under negative pressure may be determined by opening a damper in the common tunnel of each battery to assure that air enters the tunnel through the open damper.
  - b. For charging operations, the permittee shall implement, for each day of operation, the work practices specified in 40 CFR 63.306(b)(6) and Condition 11 of this permit and record the performance of the work practices as required in 40 CFR 63.306(b)(7).  
(9VAC5-80-110 and 40 CFR 63.303(a)(1) and (2))
13. Coking Equipment Requirements - The permittee shall not cause to be discharged or allow to be discharged to the atmosphere coke oven emissions from Batteries 2D, 2E, 3C, 3F, and 3G that exceed any of the following emission limitations or requirements:
  - a. For coke oven doors;
    - (1) 0.0 percent leaking coke oven doors, as determined by the procedures in 40 CFR 63.309(d)(1); or
    - (2) The permittee shall monitor and record, once per day for each day of operation, the pressure in each oven or in a common battery tunnel to ensure that the ovens are operated under negative pressure. Operation under negative pressure may be determined by opening a damper in the common tunnel of each battery to assure that air enters the tunnel through the open damper.
  - b. For charging operations, the permittee shall install, operate, and maintain an emission control system for the capture and collection of emissions in a manner consistent with good air pollution control practices for minimizing emissions from the charging operation; and

- c. For charging operations, the permittee shall implement, for each day of operation, the work practices specified in 40 CFR 63.306(b)(6) and Condition 11 of this permit and record the performance of the work practices as required in 40 CFR 63.306(b)(7). (9VAC5-80-110 and 40 CFR 63.303(b)(1), (2), and (3))
14. Coking Equipment Requirements - At all times including periods of startup, shutdown, and malfunction, the permittee shall operate and maintain the Batteries 2D, 2E, 3B, 3C, 3F, and 3G and their pollution control equipment required under 40 CFR Part 63 Subpart L, in a manner consistent with good air pollution control practices for minimizing emissions to the levels required by any applicable performance standards under Subpart L. Failure to adhere to the requirement of this condition shall not constitute a separate violation if a violation of an applicable performance or work practice standard has also occurred. (9VAC5-80-110 and 40 CFR 63.310(a))
15. Coking Equipment Requirements - The permittee shall develop, according to 40 CFR 63.310, a written startup, shutdown, and malfunction plan that describes procedures for operating Batteries 2D, 2E, 3B, 3C, 3F, and 3G, including associated air pollution control equipment, during a period of a startup, shutdown, or malfunction in a manner consistent with good air pollution control practices for minimizing emissions, and procedures for correcting malfunctioning process and air pollution control equipment as quickly as practicable. Malfunctions shall be corrected as soon as practicable after their occurrence. (9VAC5-80-110 and 40 CFR 63.310(b) and (c))
16. Coking Equipment Requirements - The permittee shall visually inspect each oven (01) prior to pushing. The oven shall not be pushed unless the visual inspection indicates that there is no smoke in the open space above the coke bed and that there is an unobstructed view of the door on the opposite side of the oven. (9VAC5-80-110 and 40 CFR 63.7293(a)(1) and (2))
17. Coking Equipment Requirements - The permittee shall meet the following requirements for the quench tower (07):
  - a. The concentration of total dissolved solids (TDS) in the water used for quenching shall not exceed 1,100 milligrams per liter.
  - b. Use acceptable makeup water, as defined in 40 CFR 63.7352, as makeup water for quenching.
  - c. Equip and maintain each quench tower with baffles such that no more than 5 percent of the cross-sectional area of the tower may be uncovered or open to the sky.
  - d. The baffles in each quench tower shall be washed once each day that the tower is used to quench coke, except when the highest measured ambient temperature remains less than 30 degrees Fahrenheit throughout that day (24-hour period). The permittee shall continuously record the ambient temperature on days that the baffles were not washed. If the measured ambient temperature rises to 30 degrees Fahrenheit or more during the

day, daily washing must be resumed according to the schedule in the operation and maintenance plan.

- e. Each quench tower shall be inspected monthly for damaged or missing baffles and blockage.
  - f. Repair or replacement of damaged or missing baffles shall be initiated within 30 days and completed as soon as practicable.  
(9VAC5-80-110, 40 CFR 63.7295(a)(1)(i), 40 CFR 63.7295(b)(1) - (4), and 40 CFR 63.7334(e)(1))
18. Coking Equipment Requirements - As required by 40 CFR 63.6(e)(1)(i), the permittee shall always operate and maintain an affected source, including air pollution control and monitoring equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by 40 CFR Part 63 Subpart CCCCC. (9VAC5-80-110 and 40 CFR 63.7300(a))
19. Coking Equipment Requirements - The permittee shall comply with the applicable emission limitations, work practice standards, and operation and maintenance requirements in 40 CFR Part 63 Subpart CCCCC at all times, except during periods of startup, shutdown, and malfunction as defined in 40 CFR 63.2. (9VAC5-80-110 and 40 CFR 63.7310(a))
20. Coking Equipment Requirements - The permittee shall develop a written startup, shutdown, and malfunction plan for each affected source under 40 CFR Part 63 Subpart CCCCC according to the provisions in 40 CFR 63.6(e)(3). (9VAC5-80-110 and 40 CFR 63.7310(c))
21. Coking Equipment Requirements - Compliance with visible emissions from the charging (05) of all ovens (01) at the facility shall be determined by following the procedures in the emissions control work practice plan per 40 CFR 63.306. (9VAC5-80-110)

## **Monitoring**

22. Coking Equipment Requirements - The permittee shall determine the TDS content of the quench water at least weekly according to the requirements in 40 CFR 63.7325(a) and record the sample results. (9VAC5-80-110 and 40 CFR 63.7333(f)(2))
23. Coking Equipment Requirements - The permittee shall perform a visible emission observation on the coke oven battery stacks once each week when there is operation. The visible emission observation shall be performed for a brief period of time to identify the presence of visible emissions. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission), a visible emissions evaluation (VEE) shall be conducted using 40 CFR 60, Appendix A, Method 9, for six minutes. If the opacity average is twenty percent (20%) or less, no action shall be

required. If the opacity average is higher than twenty percent (20%), modifications and/or repairs shall be performed to correct the problem. If such correction action fails to correct the problem a VEE using 40 CFR Part 60, Appendix A, Method 9 shall be conducted for 18 minutes to determine compliance with the opacity limit.  
(9VAC5-80-110)

24. Coking Equipment Requirements - The permittee shall ensure that the quench tower (07)/recirculating water system is maintained and in proper working order during operation.  
(9VAC5-80-110)

### **Recordkeeping**

25. Coking Equipment Requirements - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. The daily, monthly, and yearly quantities of coal charged to each oven at the facility, and daily, monthly, and yearly coke production.
  - b. Coal shipments processed, indicating sulfur, ash, volatile, and moisture content per shipment.
  - c. Monthly average of sulfur content of coal charged to the ovens.
  - d. Total number of operating and non-operating ovens each month.
  - e. Coke analysis data indicating moisture, sulfur, and volatile content.
  - f. The total number of operating hours per month for each oven.
  - g. The number of cumulative days each oven is operating at 50 tons or more of coal charges.
  - h. Hourly emissions, calculated as a monthly average (as stated in Condition 27.b. of this permit), for each pollutant as limited in Condition 5 of this permit.
  - i. Annual emissions of SO<sub>2</sub> shall be calculated monthly as follows:  
$$\text{SO}_2 \text{ (T/yr)} = 0.006057 \times (\%S) \times [\text{charge tonnage} - (9.92 \times \text{dryer hours})]$$
  
Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
  - j. Annual emissions for the remaining criteria pollutants in this permit shall be calculated using the annual coal charge and the pollutant-specific emission factors, based on performance testing, for both Battery 3B and the other oven batteries. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
  - k. Maintenance records for the quench tower/recirculating water system.
  - l. Results of any performance testing for the batteries.

- m. Results of the VE observations for the coke oven stacks.
- n. Annual quantity of coal charged to all ovens at the facility, calculated monthly as the sum of each consecutive 12-month period.
- o. The daily pressure (direction of airflow) in each common operating battery tunnel for Batteries 2D, 2E, 3B, 3C, 3F, and 3G.
- p. Records demonstrating the performance of work practice requirements for Batteries 2D, 2E, 3B, 3C, 3F, and 3G according to 40 CFR 63.306(b)(7).
- q. Design characteristics of the emission control system for collection of charging emissions from the ovens in Batteries 2D, 2E, 3C, 3F, and 3G.
- r. Notification for new coke oven construction or reconstruction of existing oven and notification of malfunction.
- s. Semiannual compliance certifications.
- t. A copy of the work practice plan required by 40 CFR 63.306 and any revision to the plan.
- u. Records documenting each visual inspection of an oven prior to pushing and that the oven was not pushed unless there was no smoke in the open space above the coke bed and there was an unobstructed view of the door on the opposite side of the oven.
- v. Records documenting conformance with the washing, inspection, and repair requirements in 40 CFR 63.7295(b)(2), including records of the ambient temperature on any day that the baffles were not washed.
- w. Records of the source of makeup water to document conformance with the requirement for acceptable makeup water in 40 CFR 63.7295(a)(2).
- x. Records of the weekly sampling results for the TDS content of the quench water.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-80-110, Condition 44 of the 5/18/2022 NSR permit, 40 CFR 63.7333(f)(2), 40 CFR 63.311, 40 CFR 63.7334, and 40 CFR 63.7343)

## Testing

- 26. Coking Equipment Requirements - The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations.  
(9VAC5-80-110 and Condition 25 of the 5/18/2022 NSR permit)
- 27. Coking Equipment Requirements - Compliance with the emission limits in Condition 5 of this permit shall be demonstrated by (a) performance testing and/or by (b) calculation, as described below, or by other methods approved by DEQ:

- a. After coal charge tonnage to more than two ovens are 50 tons or more each for 30 cumulative days, performance testing shall be completed within 60 days from that date. The test shall be conducted for particulate matter, sulfur dioxide, and nitrogen oxides on a representative stack of one operating battery (3C, 2D, 2E, 3F, or 3G) to demonstrate compliance with the emission limits in Condition 5 of this permit, using the maximum amount of coal charge that can efficiently be coked out. A maximum of two performance tests shall be required to satisfy this condition. Each performance test shall be conducted on a different operating battery containing those ovens charging 50 tons or more. For batteries that provide heat to the thermal dryer, the tests shall be conducted while the thermal dryer is not in operation and no waste heat is being recovered from any oven in the battery. Tests shall be conducted and reported, and data reduced as set forth in 9VAC5-50-30 and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410. The details of the tests (methods, procedures, timing, etc.) are to be arranged with the Director, Southwest Regional Office. The permittee shall submit a test protocol at least thirty days prior to testing. Two copies of the test results shall be submitted to the Director, Southwest Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
  - b. The permittee shall maintain records of actual emissions from the coke ovens. The content and format of such records shall be arranged with the Director, Southwest Regional Office. At a minimum, actual emission calculations shall use operational data as required by Condition 25 of this permit, for demonstration of compliance with the Condition 5 limits of this permit.  
(9VAC5-80-110 and Condition 39 of the 5/18/2022 NSR permit)
28. Coking Equipment Requirements - The permittee shall furnish written notification to the Director, Southwest Regional Office of the anticipated date(s) of performance tests specified in Condition 27 of this permit, postmarked at least thirty (30) days prior to such date(s).  
(9VAC5-80-110 and Condition 41 of the 5/18/2022 NSR permit)
29. Coking Equipment Requirements - The permittee shall complete performance testing on the exhaust stacks of two or more coke oven batteries, at least once every five calendar years. Tests shall not be repeated on any battery until all six batteries have been tested. This permit condition does not require that testing of batteries be done simultaneously. Individual battery testing may be done any time during the five-year period, provided all other terms and requirements of this permit are met.
- a. Batteries 2D, 2E, 3B, 3C, 3F, or 3G.  
For each battery tested, the performance test details are as follows:
  - b. The tests shall be performed, and compliance determined for nitrogen oxides, sulfur dioxide, particulate matter (PM10), lead, mercury, and hydrogen chloride.
  - c. Each test shall consist of three runs at the maximum production rate of the oven.

- d. The tests shall be performed, reported, and compliance demonstrated (where permit and/or regulatory limits apply) any time after permit issuance but no later than 18 months prior to the expiration date of this permit.
- e. The details of the tests, including approval of test methods for the criteria pollutants and hazardous air pollutants, are to be arranged with the Director, Southwest Regional Office.
- f. The permittee shall submit a test protocol at least 30 days prior to testing.
- g. The permittee shall submit notifications for the test protocol submittal.
- h. Two copies of the test results shall be submitted to the Director, Southwest Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.

(9VAC5-80-110)

30. Coking Equipment Requirements - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ. Testing conducted to determine compliance with particulate matter and PM10 limits in this permit should be based on methods that measure filterable particulate matter or PM10. Nothing in this condition limits DEQ's authority or ability to request testing for filterable and/or condensable particulate matter emissions.

(9VAC5-80-110)

## **Reporting**

31. Coking Equipment Requirements - The permittee shall submit all notifications and reports required by 40 CFR Part 63 Subpart L to the Director, Southwest Regional Office except a source that reclassifies to an area source must follow the notification procedures of 40 CFR 63.9(j) and (k).

(9VAC5-80-110 and 40 CFR 63.311(a))

32. Coking Equipment Requirements - The permittee shall provide written notification to the Director, Southwest Regional Office of the intent to construct a new coke oven battery (including reconstruction of an existing coke oven battery and construction of a greenfield coke oven battery), a brownfield coke oven battery, or a padup rebuild coke oven battery, including the anticipated date of startup.

(9VAC5-80-110 and 40 CFR 63.311(c)(1))

33. Coking Equipment Requirements - The permittee shall include the following information in the semiannual compliance certification required under 40 CFR Part 63 Subpart L:

- a. Certification, signed by the permittee, that the work practices applicable under 40 CFR 63.306 and Condition 11 of this permit were implemented.

- b. Certification, signed by the permittee, that all work practices for non-recovery coke oven batteries were implemented as required in 40 CFR 63.303(b)(3) and Condition 11 of this permit.  
(9VAC5-80-110 and 40 CFR 63.311(d)(3) and (4))
34. Coking Equipment Requirements - The permittee shall report to the Director, Southwest Regional Office each instance in which the applicable work practice standard or operation and maintenance requirement in 40 CFR Part 63 Subpart CCCCC were not met. These instances are deviations from the emission limitations (including operating limits), work practice standards, and operation and maintenance requirements in Subpart CCCCC. These deviations must be reported according to the requirements in 40 CFR 63.7341.  
(9VAC5-80-110 and 40 CFR 63.7336(a))
35. Coking Equipment Requirements - The permittee shall submit semiannual compliance reports for all affected sources under 40 CFR Part 63 Subpart CCCCC, except battery stacks, to the Director, Southwest Regional Office according to the requirements in paragraphs a. through c. of this condition.
- a. The first semiannual compliance report must cover the period beginning on the compliance date that is specified for the affected source in 40 CFR 63.7283 and ending on June 30 or December 31, whichever date comes first after the compliance date that is specified for the affected source. Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
  - b. All semiannual compliance reports must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
  - c. For each affected source that is subject to permitting regulations pursuant to 40 CFR Part 70 or 40 CFR Part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), the permittee may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs a. and b. of this condition.  
(9VAC5-80-110 and 40 CFR 63.7341(a)(2), (3), and (4))
36. Coking Equipment Requirements - Each semiannual compliance report required under 40 CFR Part 63 Subpart CCCCC must provide information on compliance with the emission limitations, work practice standards, and operation and maintenance requirements for all affected sources except battery stacks. Pursuant to 40 CFR 63.7282(a) and (b), the affected source under Subpart CCCCC is each coke oven battery and the subpart covers emissions from pushing, soaking, quenching, and battery stacks from each affected source. The reports must include the following information:
- a. Company name and address.



- b. Statement by a responsible official, with the official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - c. Date of report and beginning and ending dates of the reporting period.
  - d. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in 40 CFR 63.10(d)(5)(i).
  - e. If there were no deviations from the continuous compliance requirements in 40 CFR 63.7333 through §63.7335 that apply to you (for all affected sources other than battery stacks), a statement that there were no deviations from the emission limitations, work practice standards, or operation and maintenance requirements during the reporting period.
  - f. For each deviation from quench water limits and for each deviation from the requirements for work practice standards in 40 CFR Part 63 Subpart CCCCC that occurs at an affected source where you are not using a continuous monitoring system (including a COMS, CEMS, or CPMS) to comply with the emission limitations in this subpart, the compliance report must contain the information in paragraphs f(1) and f(2) of this condition. This includes periods of startup, shutdown, and malfunction.
    - (1) The total operating time of each affected source during the reporting period.
    - (2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable) as applicable and the corrective action taken.
- (9VAC5-80-110 and 40 CFR 63.7341(c)(1) – (5), and (7))
37. Coking Equipment Requirements - If there is a startup, shutdown, or malfunction of affected equipment under 40 CFR Part 63 Subpart CCCCC during the semiannual reporting period that was not consistent with the startup, shutdown, and malfunction plan, the permittee shall submit an immediate startup, shutdown, and malfunction report according to the requirements in 40 CFR 63.10(d)(5)(ii).  
(9VAC5-80-110 and 40 CFR 63.7341(d))
38. Coking Equipment Requirements - The permittee shall report all deviations as defined in 40 CFR Part 63 Subpart CCCCC in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If a compliance report for an affected source is submitted along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all the required information concerning deviations from any emission limitation or work practice standard in 40 CFR Part 63 Subpart CCCCC, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation to report deviations from permit requirements to the Director, Southwest Regional Office.  
(9VAC5-80-110 and 40 CFR 63.7341(e))

## Thermal Coal Dryer Equipment Requirements - (Emission Unit ID No. 13)

### Limitations

39. Thermal Coal Dryer Equipment Requirements - Sulfur dioxide and particulate matter emissions from the operation of the Heyl and Patterson thermal coal dryer (13) shall be controlled by operation of a high energy venturi scrubber. The pH of the high energy venturi scrubber liquid shall be maintained at an average level not less than 7.5 as specified in Condition 45 of this permit. Appropriate procedures shall be maintained by the permittee for maintaining scrubber liquid pH. The scrubber shall be provided with adequate access for inspection. The scrubber shall be equipped with a device to continuously measure the differential pressure through the scrubber.  
(9VAC5-80-110 and Condition 10 of the 5/18/2022 NSR permit)

40. Thermal Coal Dryer Equipment Requirements - Emissions from the operation of the thermal coal dryer (13) shall not exceed the limits specified below, calculated monthly as the sum of each consecutive 12-month period:

Particulate Matter	0.031 gr/dscf	7.88 lbs/hr	34.6 tons/yr
PM10	0.031 gr/dscf	7.88 lbs/hr	34.6 tons/yr
Sulfur Dioxide		1.4 lbs/hr	3.9 tons/yr

It shall in no way be construed that operation of the facility within the above stated hourly limits implies source compliance on an annual basis. Actual annual plant-wide emissions are based on the total allowable plant-wide coal consumption as outlined in Condition 8 of this permit, and the total plant-wide emissions as outlined in Condition 6 of this permit.  
(9VAC5-80-110 and Condition 20 of the 5/18/2022 NSR permit)

41. Thermal Coal Dryer Equipment Requirements - In no event, shall the thermal coal dryer (13) be operated less than the number of hours per year specified by the following equation (and illustrated graphically in Attachment A to this permit), calculated monthly as the sum of each consecutive 12-month period:

$$\text{Min. dryer operation (hr/yr)} = [0.1008065 \times \text{Coal charged (T/yr)}] - [84,660/(\%S)]$$

The total plant-wide facility emission limits are specified in Condition 6 of this permit, and the coal input limits are specified in Condition 8 of this permit. Sulfur content of the coal shall not exceed 0.88%.

The formula in this condition allows the source to, for example, process coal with up to 0.88 weight percent sulfur and either reduce overall coal consumption or increase dryer operating hours, or a balance of the two. It is also implicit in this permit condition that the source could process up to 1,041,510 tons of coal per year, provided that they comply with the coal sulfur content limit, permit sulfur dioxide limits, etc.  
(9VAC5-80-110 and Condition 23 of the 5/18/2022 NSR permit)

42. Thermal Coal Dryer Equipment Requirements - The approved fuel for the Heyl & Patterson thermal coal dryer (13) is waste heat from the operation of coke ovens at Battery 2E. A change in the fuel may require a permit to modify and operate.  
(9VAC5-80-110 and Condition 24 of the 5/18/2022 NSR permit)
43. Thermal Coal Dryer Equipment Requirements - Visible emissions from the thermal coal dryer (13) exhaust stack shall be less than twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.  
(9VAC5-80-110 and 40 CFR 252(a)(2))
44. Thermal Coal Dryer Equipment Requirements - The thermal coal dryer (13) is to be operated in compliance with federal emission requirements under 40 CFR, Part 60, Subpart Y, Standards of Performance for Coal Preparation Plants.  
(9VAC5-80-110, 40 CFR 60, Subpart Y, and Condition 33 of the 5/18/2022 NSR permit)

### **Monitoring**

45. Thermal Coal Dryer Equipment Requirements - The permittee shall continuously monitor and record for each hour of operation of the thermal coal dryer (13), the pH of the venturi scrubber liquid. The pH of the scrubber liquid shall be maintained at an average level not less than 7.5.  
(9VAC5-80-110 and Condition 10 of the 5/18/2022 NSR permit)
46. Thermal Coal Dryer Equipment Requirements - The permittee shall continuously monitor the temperature of the gas stream exiting the thermal coal dryer (13). The temperature monitoring device shall be certified by the manufacturer to be accurate within  $\pm 3^{\circ}\text{F}$ .  
(9VAC5-80-110, 40 CFR 60.256(a)(1)(i), Condition 33 of the 5/18/2022 NSR permit)
47. Thermal Coal Dryer Equipment Requirements - The permittee shall continuously monitor and record for each hour of operation of the thermal coal dryer (13), the pressure drop through the venturi scrubber. The monitoring device shall be certified by the manufacturer to be accurate within  $\pm 1$  inch water gauge.  
(9VAC5-80-110, 40 CFR 60.256 (a)(1)(ii)(A), and Conditions 10 and 33 of the 5/18/2022 NSR permit)
48. Thermal Coal Dryer Equipment Requirements - The permittee shall continuously monitor and record for each hour of operation of the thermal coal dryer (13), the water supply pressure to the venturi scrubber. The monitoring device is to be certified by the manufacturer to be accurate within  $\pm 5$  percent of design water pressure.  
(9VAC5-80-110, Condition 33 of the 11/19/2019 NSR permit, and 40 CFR 60.256(a)(1)(ii)(B))
49. Thermal Coal Dryer Equipment Requirements - All monitoring devices in Conditions 45 - 48 of this permit are to be recalibrated annually.  
(9VAC5-80-110 and 40 CFR 60.256(a)(2))

50. Thermal Coal Dryer Equipment Requirements - The permittee shall perform a visible emission observation on the thermal dryer (13) exhaust once each week during each week when there is operation. The visible emission observation shall be performed for a brief period of time to identify the presence of visible emissions. If, during any visible emissions observation, visible emissions are observed (condensed water vapor/steam is not a visible emission), a visible emissions evaluation (VEE) shall be conducted using 40 CFR 60, Appendix A, Method 9, for six minutes. If the opacity average is less than 20%, no action shall be required. If the opacity average is equal to or higher than 20%, modifications and/or repairs shall be performed to correct the problem. If such correction action fails to correct the problem a VEE using 40 CFR Part 60, Appendix A, Method 9 shall be conducted for 18 minutes to determine compliance with the opacity limit.  
(9VAC5-80-110)
51. Thermal Coal Dryer Equipment Requirements - The permittee shall monitor, operate, calibrate, and maintain the thermal coal dryer (13) with venturi scrubber according to the following plan:

	<b>INDICATOR No. 1</b>	<b>INDICATOR No. 2</b>	<b>INDICATOR No. 3</b>
	<b>Liquid pH</b>	<b>Pressure Drop</b>	<b>Water Supply Pressure</b>
I. Measurement Approach	pH for the scrubber liquid is measured continuously using a pH meter.	Pressure drop across the venturi is measured continuously using a differential pressure gauge.	Pressure drop is measured continuously using a pressure gauge.
II. Indicator Range	An excursion is defined as an average level less than 7.5; excursions trigger an inspection, corrective action, and reporting requirement.	An excursion is a pressure drop less than 20 inches w.c. Excursions trigger an inspection, corrective action, and a reporting requirement.	An excursion is defined as a pressure less than 12 psig. Excursions trigger an inspection, corrective action, and a reporting requirement.
III. Performance Criteria			
A. Data Representativeness	pH meter will be located in the tank to measure the scrubber liquid.	The differential pressure gauge monitors the static pressures across the venture scrubber.	The water pressure gauge monitors water supply pressure to the scrubber. The gauge is located close to the water discharge point.
B. Verification of Operational Status	Recorded hourly when operating.	Recorded hourly when operating.	Recorded hourly when operating.
C. QA/QC Practices and Criteria	Calibrate the pH meter annually. Maintenance according to manufacturer's specifications.	The device is to be certified by the manufacturer to be accurate within $\pm 1$ inch water gauge and calibrated annually based on manufacturer's recommendation. Maintenance according to manufacturer's specifications.	The device is to be certified by the manufacturer to be accurate within $\pm 5\%$ of design water supply pressure and calibrated annually based on manufacturer's recommendation. Maintenance according to manufacturer's specifications.
D. Monitoring Frequency	Continuous when operating.	Continuous when operating.	Continuous when operating.
E. Data Collection Procedures	Record pH every hour when operating	Record pressure drop every hour when operating	Record water pressure every hour when operating
F. Averaging Period	24-hour	None	None

(9VAC5-80-110 and 40 CFR 64)

52. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.  
(9VAC5-80-110 E and 40 CFR 64.6(c))
53. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
(9VAC5-80-110 E and 40 CFR 64.7(b))
54. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the thermal dryer (13) and venturi scrubber are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.  
(9VAC5-80-110 E and 40 CFR 64.7(c))
55. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- Upon detecting an excursion or exceedance, the permittee shall restore operation of the thermal dryer (13) (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.  
(9VAC5-80-110 E and 40 CFR 64.7 (d)(1))

56. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.  
(9VAC5-80-110 E and 40 CFR 64.7(d)(2))
57. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Southwest Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
(9VAC5-80-110 and 40 CFR 64.7(e))
58. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM)  
- If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the thermal dryer (13) for a semiannual reporting period, the permittee shall develop, implement, and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
  - b. Process operation changes;
  - c. Appropriate improvements to control methods;
  - d. Other steps appropriate to correct control performance; and
  - e. More frequent or improved monitoring.
- (9VAC5-80-110 and 40 CFR 64.8(a) and (b))

## **Recordkeeping**

59. Thermal Coal Dryer Equipment Requirements - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. The pH of the venturi scrubber liquid.
  - b. The pressure drop through the venturi scrubber.

- c. The water supply pressure to the scrubber.
- d. The total annual hours of thermal dryer (13) operation, calculated monthly as the sum of each consecutive 12-month period.
- e. Records of annual calibration of the thermal dryer (13) monitoring devices.
- f. Results of all performance tests and VE observations for the thermal dryer (13).

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5-80-110; 40 CFR 60, Subpart Y, and Condition 44 of the 5/28/2022 NSR Permit)

60. Thermal Coal Dryer Equipment Requirements - Compliance Assurance Monitoring (CAM) Recordkeeping - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).  
(9VAC5-80-110 and 40 CFR 64.9(b))

## Testing

61. Thermal Coal Dryer Equipment Requirements - The permittee shall complete performance testing on the thermal dryer (13) exhaust stack to determine compliance with the emission limits listed in Condition 40 of this permit. The tests shall consist of three runs, each at the maximum production rate of the thermal dryer. The test shall be performed, reported, and compliance demonstrated any time after permit issuance but no later than 18 months prior to the expiration date of this permit. The details of the tests, including approval of test methods for the criteria pollutants, are to be arranged with the Director, Southwest Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. The permittee shall submit notifications for the test protocol submittal. Two copies of the test results shall be submitted to the Director, Southwest Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-80-110)
62. Thermal Coal Dryer Equipment Requirements - The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations  
(9VAC5-80-110 and Condition 25 of the 5/18/2022 NSR permit)
63. Thermal Coal Dryer Equipment Requirements - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ. Testing conducted to determine compliance with particulate matter and PM10 limits in this permit should be based on methods that measure filterable particulate matter or PM10. Nothing in this condition



limits DEQ's authority or ability to request testing for filterable and/or condensable particulate matter emissions.  
(9VAC5-80-110)

**Coke Screening Equipment Requirements - (Emission Unit ID No. 09, 09a, 09b, 09c, 09d, 09e, 09f, MS1, MS2, MS3, SP, and TCS)**

**Limitations**

64. Coke Screening Equipment Requirements - Particulate emissions from the Powerscreen<sup>®</sup> Warrior 2100 (or equivalent) portable screening units (MS1, MS2, MS3) shall be controlled by wet suppression (to include the processing of wet material) or equivalent. The wet suppression systems shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 1 of the 5/18/2022 NSR Permit)
65. Coke Screening Equipment Requirements - Particulate emissions from the coke screening plant (09) shall be controlled by a baghouse and full enclosure. The baghouse and enclosure shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 2 of the 5/18/2022 NSR permit)
66. Coke Screening Equipment Requirements - Particulate emissions from the oversize coke recirculating conveyor transfer point (09a) shall be controlled by an enclosure. The enclosure shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 3 of the 5/18/2022 NSR permit)
67. Coke Screening Equipment Requirements - Particulate emissions from the transfer of coke to the breeze bunker (09c) shall be controlled by partial enclosure. The partial enclosure shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 4 of the 5/18/2022 NSR permit)
68. Coke Screening Equipment Requirements - The annual production of screened coke products from the Powerscreen<sup>®</sup> Warrior 2100 (or equivalent) portable screening units (MS1, MS2, MS3) shall not exceed 375,000 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 13 of the 5/18/2022 NSR permit)
69. Coke Screening Equipment Requirements - The coke screening plant (09), associated material handling equipment (09a – 09f), and coke breeze storage pile (30a) shall each process no more than 801,963 tons of coke per year, calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 16 of the 5/18/2022 NSR permit)

70. Coke Screening Equipment Requirements - Emissions from the operation of the three (3) Powerscreen® Warrior 2100 (or equivalent) portable screening units (MS1, MS2, MS3) shall not exceed the limits specified below:

Particulate Matter	2.90 lbs/hr	0.70 tons/yr
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These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 64 and 68 of this permit.

(9VAC5-80-110 and Condition 17 of the 5/18/2022 NSR permit)

71. Coke Screening Equipment Requirements - Emissions from the operation of the coke screening plant (09) and associated material handling equipment (09a – 09f) and coke breeze storage pile (30a) shall not exceed the limits specified below:

Particulate Matter	30.47 lbs/hr	14.33 tons/yr
PM10	14.42 lbs/hr	6.76 tons/yr
PM2.5	2.19 lbs/hr	1.05 tons/yr

Compliance with these emission limits shall be as stated in Condition 69 of this permit.  
(9VAC5-80-110 and Condition 18 of the 5/18/2022 NSR permit)

72. Coke Screening Equipment Requirements - Visible emissions from the Powerscreen® Warrior 2100 (or equivalent) portable screening units (MS1, MS2, MS3) and their associated conveyors shall not exceed ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.

(9VAC5-80-110 and Condition 27 of the 5/18/2022 NSR permit)

73. Coke Screening Equipment Requirements - Visible emissions from the operation of the coke screening plant (09) and associated material handling equipment (09a – 09f) and coke breeze storage pile (30a) shall not exceed twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.

(9VAC5-80-110 and Condition 29 of the 5/18/2022 NSR permit)

74. Coke Screening Equipment Requirements - The pressure drop across the baghouse (BH01) for the coke screening plant (09) shall be maintained at no less than 1.0 inches of water and no more than 8.0 inches of water when the coke screening plant is operated during nighttime hours.

(9VAC5-80-110)

## Monitoring

75. Coke Screening Equipment Requirements – The permittee shall monitor the performance of the baghouse (BH01) for the coke screening plant (09) as follows:
- a. Perform visible emission observations on the baghouse at least once in any week the coke screening plant is operated during daylight hours. The visible emissions observations shall be conducted during periods of normal facility daytime operation for a sufficient time period to determine the presence of any visible emissions. If no visible emissions are observed, no action shall be required. If, during any visible emission observation, visible emissions are observed (condensed water vapor/steam is not a visible emission), a visible emissions evaluation (VEE) shall be conducted using 40 CFR 60, Appendix A, Method 9, for not less than six minutes. If the average opacity exceeds 20%, repairs shall be performed in a timely manner to correct the problem, and the corrective measures shall be recorded.
  - b. Install equipment to monitor the pressure drop across the baghouse. The monitoring equipment shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring equipment shall be provided with adequate access for inspection and shall be in operation when the baghouse is operating during nighttime hours.
  - c. Observe the equipment used to measure the pressure drop across the baghouse with a frequency of not less than once per shift when the coke screening plant is operating during nighttime hours. The permittee shall keep a log of the observations or continuously record measurements from the equipment used to measure the pressure drop across the baghouse.
- (9VAC5-80-110)
76. Coke Screening Equipment Requirements - The permittee shall inspect the baghouse (BH01) filter bags once each week for proper operation and maintenance.  
(9VAC5-80-110)
77. Coke Screening Equipment Requirements - The permittee shall perform inspections of the full enclosure for the oversize coke recirculating conveyor (09a) and the partial enclosure for the breeze bunker (09c) transfer conveyor in the coke screening plant. The enclosure and partial enclosure shall be inspected once each year for structural integrity.  
(9VAC5-80-110)

## Recordkeeping

78. Coke Screening Equipment Requirements - The permittee shall maintain records of all emissions data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

- a. The annual production of screened coke products from the Powerscreen® Warrior 2100 (or equivalent) portable screening units (MS1, MS2, MS3), calculated monthly as the sum of each consecutive 12-month period.
  - b. Results of each visible emissions observation including, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer.
  - c. Result of each inspection of the baghouse (BH01) filter bags, the full enclosure for the oversize coke recirculating conveyor (09a), and the partial enclosure for the breeze bunker (09c) transfer conveyor including, at a minimum, the date, time, the results of the inspection, any corrective action taken, and the name of the inspector.
  - d. The coke processing rate for the coke screening plant (09), associated material handling equipment (09a – 09f), and coke breeze storage pile (30a), calculated monthly as the sum of each consecutive 12-month period.
  - e. The log of observations or continuous measurements from the equipment used to measure the pressure drop across the baghouse (BH01).
- (9VAC5-80-110 and Condition 44.a of the 5/18/2022 NSR permit)

### Testing

79. Coke Screening Equipment Requirements - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.  
(9VAC5-80-110 and Condition 25 of the 5/18/2022 NSR permit)

### **Coal Crushing Equipment Requirements (Emission Unit ID No. 25a, 25b, 25c, 25d, 25e, 25f, 25g, 25h, 25i, and 25j)**

#### Limitations

80. Coal Crushing Equipment Requirements - Particulate emissions from the two Pennsylvania coal crushers (25a), coal feeders (25c), and conveyors (25b and 25d) shall be controlled by an enclosure. The crushed coal transfer point to the existing dried coal conveyor (25e) shall be enclosed. The enclosures shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 7 of the 5/18/2022 NSR permit)
81. Coal Crushing Equipment Requirements - Particulate emissions from the coal bin (25c) shall be controlled by a filtration system. The filtration system shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 8 of the 5/18/2022 NSR permit)

82. Coal Crushing Equipment Requirements - Particulate emissions from the coal bin (25c) exhaust stack shall not exceed the limitation specified below:  

PM/PM10	0.01 gr/dscf
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(9VAC5-80-110 and Condition 22 of the 5/18/2022 NSR permit)
83. Coal Crushing Equipment Requirements - Visible emissions from the two Pennsylvania crushers (25a), coal feeders (25c), conveyors (25b, 25d, and 25e), the dryer bypass conveyor (25f and 25g), the coal truck load-out conveyor (25h and 25i), and the coal truck load-out (25j) each shall be less than ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9VAC5-80-110, 40 CFR 60.254(b)(1), and Condition 31 of the 5/18/2022 NSR permit)
84. Coal Crushing Equipment Requirements - Visible emissions from the coal bin (25c) exhaust stack shall be less than ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9VAC5-80-110, 40 CFR 60.254(b)(1), and Condition 32 of the 5/18/2022 NSR permit)
85. Coal Crushing Equipment Requirements - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment (25a – 25j) shall be operated in compliance with the requirements of 40 CFR 60, Subpart Y.  
(9VAC5-80-110 and Condition 33 of the 5/18/2022 NSR permit)

## Monitoring

86. Coal Crushing Equipment Requirements - The permittee shall conduct ongoing visible emission observations (VEO) on the building enclosure for the crushers and conveyors (25a, 25b, 25d, and 25e) in accordance with 40 CFR Part 60, Appendix A, Method 22, at an interval of not more than 12 months following the previous visible emissions observations or evaluations (VEE) that indicated no visible emissions, as follows:
- a. If visible emissions are observed during an ongoing compliance demonstration utilizing Method 22, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted within 45 days.
  - b. If any 6-minute average opacity reading during a VEE exceeds half of the applicable visible emissions limit, a follow-up VEE shall be conducted within the next 90 operating days.
  - c. If all of the 6-minute average opacity readings during a VEE are less than or equal to 50% of the applicable visible emissions limit, a follow-up VEE must be conducted within the next 12 months.
  - d. If all of the 6-minute average opacity readings during a VEE are zero, a follow-up Method 9 VEE or a Method 22 VEO shall be conducted within the next 12 months.

The permittee may elect to use Method 9 as an alternative to Method 22, and, if Method 9 is used, shall comply with the requirements of 40 CFR 60, Appendix A and with 40 CFR 60.257(a)(1).  
(9VAC5-80-110 and Condition 36 of the 5/18/2022 NSR permit)

### **Recordkeeping**

87. Coal Crushing Equipment Requirements - The permittee shall maintain in a logbook (written or electronic) on-site in accordance with 40 CFR 60.258(a) and make it available upon request. The logbook shall record the following for the coal bin exhaust stack and the enclosures for the crushers and conveyors (25a, 25b, 25d, 25e, 25f, and 25h), conveyor transfer points (25g and 25i), and coal truck load-out (25j):
- a. The manufacturer's recommended maintenance procedures and the date and time of any maintenance and inspection activities and the results of those activities. Any variance from manufacturer recommendation, if any, shall be noted.
  - b. The date and time of all periodic coal preparation and processing plant visual observations, noting those sources with visible emissions along with corrective actions taken to reduce visible emissions. Results from the actions shall be noted.
  - c. The amount of raw coal processed each calendar month, as detailed in Condition 25 of this permit.
  - d. Monthly certification that the dust suppressant systems (if applicable) were operational when any coal was processed, and that manufacturer's recommendations were followed for all control systems. Any variance from the manufacturer's recommendations, if any, shall be noted.
- (9VAC5-80-110, 40 CFR 60.258(a), and Condition 37 of the 5/18/2022 NSR permit)

### **Testing**

88. Coal Crushing Equipment Requirements - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.  
(9VAC5-80-110 and Condition 25 of the 5/18/2022 NSR permit)
89. Coal Crushing Equipment Requirements - In accordance with 40 CFR 60.255(d), the permittee shall be exempt from future performance testing for the particulate limit in Condition 82 of this permit provided all of the following requirements are met:
- a. PM emissions, as determined by the most recent performance test, are less than or equal to the applicable limit.
  - b. The control device manufacturer's recommended maintenance procedures are followed.

- c. All 6-minute average opacity readings from the most recent performance test are equal to or less than half the applicable opacity limit.  
(9VAC5-80-110, 40 CFR 60.255(d)(1) – (3), and Condition 34 of the 5/18/2022 NSR permit)
90. Coal Crushing Equipment Requirements - The permittee shall conduct additional performance tests (VEEs) on the coal bin (25c) exhaust stack in accordance with 40 CFR 60.257(a)(1), as follows:
- a. If any 6-minute average opacity reading in the most recent performance test exceeds half the applicable opacity limit, a new performance test shall be conducted within 90 operating days of the date that the previous performance test was required to be completed.
  - b. Performance testing (based on results from testing in Condition 90.a.) shall be repeated within 12 months of the date that the previous performance test was required to be completed, if the six-minute averages from the previous test were equal to or less than half the applicable opacity standard.  
(9VAC5-80-110 and Condition 35 of the 5/18/2022 NSR permit)
91. Coal Crushing Equipment Requirements - Initial Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted on the following equipment: conveyor (25h), conveyor transfer point (25i), and coal truck load-out (25j). The duration of each VEE test shall be one hour (ten 6-minute averages). If, during the initial 30 minutes of the VEE test, all of the 6-minute average opacity readings are less than or equal to 50% of the applicable opacity limit, then the observation period may be reduced from 1 hour to 30 minutes. The details of the tests are to be arranged with the Director Southwest Regional Office. The evaluation shall be performed and reported within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. One copy of the test result shall be submitted to the Director, Southwest Regional Office within 45 days after test completion.  
(9VAC5-80-110, 9VAC5-50-410, and 40 CFR 60.255(b)(2))
92. Coal Crushing Equipment Requirements - The permittee shall conduct additional performance tests (VEEs) on conveyors (25f and 25h), conveyor transfer points (25g and 25i), and coal truck loadout (25j) in accordance with 40 CFR 60.257(a)(1), as follows:
- a. If any 6-minute average opacity reading in the most recent performance test exceeds 50% of the applicable opacity limit, a new performance test shall be conducted within 90 operating days of the date that the previous performance test was required to be completed.
  - b. Performance testing shall be repeated within 12 months of the date that the previous performance test was required to be completed, if the six-minute averages from the previous test were equal to or less than 50% of the applicable opacity standard.  
(9VAC5-80-110, 9VAC5-50-410, and 40 CFR 60.255(b)(2)(i) & (ii))

93. Coal Crushing Equipment Requirements - As an alternative to meeting the requirements in Condition 92, the permittee may elect to comply with the following requirements:
- a. Conduct one daily 15-second observation each operating day for each affected facility (during normal operation) when the coal preparation and processing plant is in operation. Each observation must be recorded as either visible emissions observed, or no visible emissions observed. Each observer determining the presence of visible emissions must meet the training requirements specified in §2.3 of Method 22 of 40 CFR Part 60, Appendix A-7. If visible emissions are observed during any 15-second observation, the owner or operator must adjust the operation of the affected facility and demonstrate within 24 hours that no visible emissions are observed from the affected facility. If visible emissions are observed, a Method 9, of 40 CFR Part 60, Appendix A-4 performance test must be conducted within 45 operating days.
  - b. Conduct monthly visual observations of all process and control equipment. If any deficiencies are observed, the necessary maintenance must be performed as expeditiously as possible.
  - c. Conduct a performance test using Method 9 of 40 CFR Part 60, Appendix A-4 at least once every five (5) calendar years for each affected facility.  
(9VAC5-80-110, 9VAC5-50-410, and 40 CFR 60.255(f)(1))

## Reporting

94. Coal Crushing Equipment Requirements - Reports shall be provided to the Director, Southwest Regional Office, in accordance with 40 CFR 60.258 (b) and (c) for the coal bin (25c) exhaust stack and the building enclosure for the crushers and conveyors (25a, 25b, 25d, 25e, 25f, and 25h), conveyor transfer points (25g and 25i), and coal truck loadout (25j), as follows:
- a. Semiannual period reports of all 6-minute average opacities that exceed the applicable standard.
  - b. Results of initial performance tests (for VEEs and particulates).
  - c. Report the results of initial performance tests to the Administrator or delegated authority, consistent with the provisions of 40 CFR 60.8. The permittee who elects to comply with the reduced performance testing provisions of 40 CFR 60.255(c) or (d) shall include in the performance test report identification of each affected facility that will be subject to the reduced testing. The permittee electing to comply with 40 CFR 60.255(d) shall also include information which demonstrates that the control devices are identical.
  - d. Within 60 days after the date of completing each performance evaluation conducted to demonstrate compliance with this permit, the permittee shall submit a summary copy to the United States Environmental Protection Agency; Energy Strategies Group; 109 TW Alexander DR; mail code: D243-01; RTP, NC 27711.  
(9VAC5-80-110, 40 CFR 60.258(b), (c), and (d), and Condition 38 of the 5/18/2022 NSR permit)



## **Emergency Generator Engine Requirements (Emission Unit ID No. IC-BC1, IC-BC2, IC-DE, and IC-FG)**

### **Limitations**

95. Emergency Generator Engine Requirements - The permittee must comply with the Tier 2, or Tier 3 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR Part 1039, Appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007 for the emergency generator engine (IC-BC2).  
(9VAC5-80-110, 40 CFR 60.4205(b), and 40 CFR 60.4202(a)(2))
96. Emergency Generator Engine Requirements - The permittee shall operate and maintain the emergency generator engine (IC-BC2) such that it achieves the emission standards as required in 40 CFR 60.4204 and 40 CFR 60.4205 over the entire life of the engine.  
(9VAC5-80-110 and 40 CFR 60.4206)
97. Emergency Generator Engine Requirements - The emergency generator engine (IC-BC2) must use diesel fuel that meets the requirements of 40 CFR 1090.305 for non-road diesel fuel.  
(9VAC5-80-110 and 40 CFR 60.4207(b))
98. Emergency Generator Engine Requirements - In regard to the emergency generator engine (IC-BC2), the permittee shall:
  - a. Operate and maintain the emergency generator engine and control device according to the manufacturer's emission-related written instructions,
  - b. Change only those emission-related settings that are permitted by the manufacturer, and
  - c. Meet the requirements of 40 CFR Part 1068, as they apply.  
(9VAC5-80-110 and 40 CFR 60.4211(a)(1) – (3))
99. Emergency Generator Engine Requirements - Except as permitted in Condition 100 of this permit, the permittee must install and configure the emergency generator engine (IC-BC2) according to the manufacturer's emission-related specifications.  
(9VAC5-80-110 and 40 CFR 60.4211(c))
100. Emergency Generator Engine Requirements - If the emergency generator engine (IC-BC2), is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:
  - a. Keep a maintenance plan and records of conducted maintenance,

- b. To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions,
  - c. Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year after the engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after emission-related settings are changed in a way that is not permitted by the manufacturer, and
  - d. Conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.
- (9VAC5-80-110 and 40 CFR 60.4211(g)(3))

101. Emergency Generator Engine Requirements - The permittee must operate the emergency generator engine (IC-BC2) according to the requirements in paragraphs a through c of this condition. In order for the engine to be considered an emergency stationary internal combustion engine (ICE) under 40 CFR Part 60, Subpart IIII, any operation other than emergency operation, maintenance, and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs a through c of this condition, is prohibited. If the engine is not operated according to the requirements in paragraphs a through c of this condition, the engine will not be considered an emergency engine under 40 CFR Part 60, Subpart IIII and must meet all requirements for non-emergency engines indicated in 40 CFR Part 60, Subpart IIII.

- a. There is no time limit on the use of the emergency generator engine (IC-BC2) in emergency situations.
- b. The emergency generator engine (IC-BC2) may be operated for the purpose specified in paragraph b.(1) below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph c of this condition counts as part of the 100 hours per calendar year allowed by this paragraph b.
  - (1) The emergency generator engine (IC-BC2) may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year.
- c. The emergency generator engine (IC-BC2) may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in paragraph b. of this condition. The 50 hours per

year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. (9VAC5-80-110, and 40 CFR 60.4211(f)(1), (f)(2)(i), and (f)(3))

102. Emergency Generator Engine Requirements - Visible emissions from each emergency generator engine (IC-BC1, IC-DE, and IC-FG) exhaust stack shall not exceed twenty percent (20%) opacity, except for one six-minute period in any one hour of not more than thirty percent (30%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.  
(9VAC5-80-110 and 9VAC5-50-80)

### **Recordkeeping**

103. Emergency Generator Engine Requirements - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. Annual hours of operation of the emergency generator engine (IC-BC2), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - b. Engine information including make, model, serial number, model year, maximum engine power (bhp), and engine displacement for the emergency generator engine (IC-BC2).
  - c. The manufacturer's written operating instructions or procedures developed by the permittee that are approved by the engine manufacturer for the emergency generator engine (IC-BC2).
  - d. Records of the reasons for operation for the emergency generator engine (IC-BC2), including, but not limited to, the date, cause of operation, cause of the emergency and hours of operation.
- (9VAC5-80-110 and 9VAC5-50-50)

**Dismal River Terminal Equipment Requirements (Emission Unit ID No. T-MMTP, T-MMFB, T-MMSC, T-22 – T-27, T-29, T-31, T-32, T-MS4, T-RM1, T-RM2, T-CR, T-CL, T-SP2, T-42A – T-42E, T-43, T-48, T-49, T-CC2, and T-CC2A)**

**Limitations**

104. Dismal River Terminal Equipment Requirements - Particulate emissions from the coal reclaim hoppers and feeders (T-42A – T-42E), reclaim conveyor (T-43), Transfer Belt #1 (T-48), and the radial stacker (T-49) shall be controlled by wet suppression (or the processing of wet coal), or equivalent. The equipment shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 1 of the 6/17/2022 NSR permit for Reg. No. 10818)
105. Dismal River Terminal Equipment Requirements - Particulate emissions from the clean coal crusher and the Jeffrey 56FT hammer mill crusher (T-CC2 and T-CC2A), and the roll crusher (T-CR) shall be controlled by full enclosure, or equivalent. The enclosures shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 2 of the 6/17/2022 NSR permit for Reg. No. 10818)
106. Dismal River Terminal Equipment Requirements - Particulate emissions from the Eirich rod mill (T-RM1) when the pneumatic transfer system is operating shall be controlled by full enclosure and baghouse. The enclosure and baghouse shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 3 of the 6/17/2022 NSR permit for Reg. No. 10818)
107. Dismal River Terminal Equipment Requirements - Particulate emissions from the Eirich rod mill (T-RM1) when the pneumatic transfer system is not operating shall be controlled by full enclosure. The enclosure shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 4 of the 6/17/2022 NSR permit for Reg. No. 10818)
108. Dismal River Terminal Equipment Requirements - Particulate emissions from the Marcy rod mill (T-RM2) shall be controlled by a hood enclosing product discharge vented to a cyclone with cartridge filter exhaust, or equivalent. The enclosure and cyclone shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 5 of the 6/17/2022 NSR permit for Reg. No. 10818)
109. Dismal River Terminal Equipment Requirements - Particulate emissions from the belt conveyors (T-31 and T-32) shall be controlled by partial enclosure and the processing of wet coal. The enclosures shall be provided with adequate access for inspection.  
(9VAC5-80-110 and Condition 6 of the 6/17/2022 NSR permit for Reg. No. 10818)
110. Dismal River Terminal Equipment Requirements - Particulate emissions from the clean coal screen, transfers from the coal bins to blending belt, blending belt to river belt, return from coke plant to No. 6 belt, clean coal bin to clean coal belt No. 1, clean coal belt No. 2

to clean coal screen, clean coal screen to clean coal crusher, and clean coal screen to clean coal belt No. 3 shall be controlled by full enclosure or equivalent. The enclosures shall be provided with adequate access for inspection.

(9VAC5-80-110 and Condition 7 of the 6/17/2022 NSR permit for Reg. No. 10818)

111. Dismal River Terminal Equipment Requirements - Particulate emissions from the transfers from trucks to bins and clean coal transfer from truck unloading to the clean coal bin shall be controlled by partial enclosure or equivalent. The enclosures shall be provided with adequate access for inspection.

(9VAC5-80-110 and Condition 8 of the 6/17/2022 NSR permit for Reg. No. 10818)

112. Dismal River Terminal Equipment Requirements - Particulate emissions from the coke screener (T-MS4) shall be controlled by wet suppression (to include the processing of wet material or water trucks). If applicable, the equipment shall be provided with adequate access for inspection.

(9VAC5-80-110 and Condition 9 of the 6/17/2022 NSR permit for Reg. No. 10818)

113. Dismal River Terminal Equipment Requirements - Fugitive emission controls shall include the following, or equivalent, as a minimum:

- a. Dust from drills, shot piles, material handling, screens, crushers, loadouts, and traffic areas shall be controlled by wet suppression or the processing of wet coal (as approved by the DEQ). The wet suppression spray systems shall be installed with adequate access for inspection.
- b. All material being stockpiled shall be kept adequately moist to control dust during storage and handling or covered at all times to minimize emissions.
- c. Dust from haul roads and traffic areas shall be controlled by the application of asphalt, water, suitable chemicals, or equivalent methods approved by the DEQ.
- d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9VAC5-80-110 and Condition 10 of the 6/17/2022 NSR permit for Reg. No. 10818)

114. Dismal River Terminal Equipment Requirements - The annual throughput of coal processed by the supplemental clean coal processing line (T-22 – T-27, T-29, T-42A – T-42E, T-43, T-48, T-CC2, and T-CC2A) shall not exceed 1,200,000 tons. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.

(9VAC5-80-110 and Condition 11 of the 6/17/2022 NSR permit for Reg. No. 10818)

115. Dismal River Terminal Equipment Requirements - The annual throughput of coal to belt conveyors T-31 and T-32 shall not exceed 3,900,000 tons each. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.

(9VAC5-80-110 and Condition 12 of the 6/17/2022 NSR permit for Reg. No. 10818)

116. Dismal River Terminal Equipment Requirements - The annual throughput of coke breeze to the rod mills (T-RM1 and T-RM2) shall not exceed a combined total of 125,000 tons. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 13 of the 6/17/2022 NSR permit for Reg. No. 10818)
117. Dismal River Terminal Equipment Requirements - The combined annual processing of clean coal delivered by truck and rail shall not exceed 8,831,901 tons. Annual processing shall be calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 14 of the 6/17/2022 NSR permit for Reg. No. 10818)
118. Dismal River Terminal Equipment Requirements - The annual throughput of coke processed by the screener (T-MS4) shall not exceed 125,000 tons. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 15 of the 6/17/2022 NSR permit for Reg. No. 10818)
119. Dismal River Terminal Equipment Requirements - The annual loadout of clean dried coal (return from coke plant) shall not exceed 1,927,200 tons, calculated monthly as the sum of each consecutive 12-month period. The annual coke rail loadout by the stacker conveyor (T-CL) shall not exceed 300,000 tons, calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 16 of the 6/17/2022 NSR permit for Reg. No. 10818)
120. Dismal River Terminal Equipment Requirements - The combined emissions from the supplemental clean coal processing line (T-22 – T-27, T-29, T-42A – T-42E, T-43, T-48, T-CC2, and T-CC2A) shall not exceed the following:
- |       |             |              |
|-------|-------------|--------------|
| PM    | 3.19 lbs/hr | 3.02 tons/yr |
| PM10  | 2.22 lbs/hr | 2.11 tons/yr |
| PM2.5 | 1.17 lbs/hr | 1.11 tons/yr |
- These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 104, 105, 110, 111, and 114.  
(9VAC5-80-110 and Condition 17 of the 6/17/2022 NSR permit for Reg. No. 10818)
121. Dismal River Terminal Equipment Requirements - The combined emissions from the belt conveyors (T-31 and T-32) shall not exceed the following:
- |    |             |              |
|----|-------------|--------------|
| PM | 1.01 lbs/hr | 3.04 tons/yr |
|----|-------------|--------------|
- These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 109 and 115.  
(9VAC5-80-110 and Condition 18 of the 6/17/2022 NSR permit for Reg. No. 10818)

122. Dismal River Terminal Equipment Requirements - The combined emissions from the Eirich rod mill operations (T-RM1), roll crusher (T-CR), and coke rail loadout by the stacker conveyor (T-CL) shall not exceed the following:

PM	4.44 lbs/hr	7.68 tons/yr
PM10	2.77 lbs/hr	6.85 tons/yr
PM2.5	2.23 lbs/hr	6.42 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 105, 106, 116, and 119.

(9VAC5-80-110 and Condition 19 of the 6/17/2022 NSR permit for Reg. No. 10818)

123. Dismal River Terminal Equipment Requirements - Emissions from the processing and handling of offloaded clean coal shipments shall not exceed the following

PM10	3.93 lbs/hr	15.10 tons/yr
PM2.5	1.56 lbs/hr	5.98 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 104, 110, 111, 117, and 119.

(9VAC5-80-110 and Condition 20 of the 6/17/2022 NSR permit for Reg. No. 10818)

124. Dismal River Terminal Equipment Requirements - Visible emissions from the four (4) reclaim hoppers and feeders (T-42A – T-42D), reclaim conveyor (T-43), Transfer Belt #1 (T-48), and the belt conveyors (T-31 and T-32) shall each be less than ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 21 of the 6/17/2022 NSR permit for Reg. No. 10818)

125. Dismal River Terminal Equipment Requirements - Visible emissions from Hopper/Feeder #5 (T-42E), when processing coal, shall be less than ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Visible emissions from Hopper/Feeder #5 (T-42E), when processing coke breeze, shall not exceed twenty percent (20%) opacity, except for one six-minute period in any one hour of not more than thirty percent (30%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 22 of the 6/17/2022 NSR permit for Reg. No. 10818)

126. Dismal River Terminal Equipment Requirements - Visible emissions from the clean coal crusher and the Jeffrey 56FT hammer mill crusher (T-CC2 and T-CC2A) shall be less than twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 23 of the 6/17/2022 NSR permit for Reg. No. 10818)
127. Dismal River Terminal Equipment Requirements - Unless otherwise specified in Conditions 126, 127, 128, 130, 131, and 132, visible emissions from all of the fugitive emission sources shall not exceed twenty percent (20%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A), except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent (60%) opacity. This condition applies at all times except during start-up, shutdown, or malfunction.  
(9VAC5-80-110 and Condition 24 of the 6/17/2022 NSR permit for Reg. No. 10818)
128. Dismal River Terminal Equipment Requirements - Visible emissions from the Eirich rod mill (T-RM1) as exhausted through the baghouse shall not exceed five percent (5%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 25 of the 6/17/2022 NSR permit for Reg. No. 10818)
129. Dismal River Terminal Equipment Requirements - Visible emissions from the Marcy rod mill (T-RM2) as exhausted through the cyclone with cartridge filters shall not exceed five percent (5%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 26 of the 6/17/2022 NSR permit for Reg. No. 10818)
130. Dismal River Terminal Equipment Requirements - Visible emissions from the coke screener operations (T-MS4) shall not exceed ten percent (10%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 27 of the 6/17/2022 NSR permit for Reg. No. 10818)
131. Dismal River Terminal Equipment Requirements - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment (T-22 – T-27, T-29, T-42A – T-42E, T-43, T-48, T-CC2, T-CC2A, T-31, and T-32) shall be operated in compliance with the requirements of 40 CFR 60, Subpart Y.  
(9VAC5-80-110 and Condition 28 of the 6/17/2022 NSR permit for Reg. No. 10818)
132. Dismal River Terminal Equipment Requirements - A fugitive coal dust emissions control plan shall be prepared and submitted to the Director, Southwest Regional Office, prior to operation of any open storage piles constructed after May 27, 2009. The permittee shall operate in accordance with the fugitive coal dust emissions control plan that is appropriate



for the site conditions as specified in 40 CFR 60.254(c)(1) through (c)(6), and all other provisions of NSPS Subpart Y applicable to affected open storage piles.  
(9VAC5-80-110 and Condition 34 of the 6/17/2022 NSR permit for Reg. No. 10818)

### **Monitoring and Testing**

133. Dismal River Terminal Equipment Requirements - Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted by the permittee on Hopper/Feeder #5 (T- 42E), when the unit is processing coal. The duration of each VEE test shall be one hour (ten 6-minute averages). If, during the initial 30 minutes of the VEE test, all of the 6-minute average opacity readings are less than or equal to 50% of the applicable opacity limit, then the observation period may be reduced from 1 hour to 30 minutes. The details of the tests are to be arranged with the Director, Southwest Regional Office. The evaluation shall be performed and reported within 60 days after achieving the maximum production rate at which Hopper/Feeder #5 (T- 42E) will be operated while processing coal, but in no event later than 180 days after initial throughput of coal to the unit. One copy of the test result shall be submitted to the Director, Southwest Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit.  
(9VAC5-80-110 and Condition 29 of the 6/17/2022 NSR permit for Reg. No. 10818)

134. Dismal River Terminal Equipment Requirements - The permittee shall conduct additional performance tests (VEE) in accordance with 40 CFR 60.257(a)(1), on the following equipment while processing coal:

- (5) Reclaim hoppers & feeders (T- 42A – T-42E);
- Reclaim conveyor (T-43);
- Transfer Belt #1 (T-48); and
- Belt conveyors (T-31 and T-32).

The additional performance tests (VEEs) shall be conducted as follows:

- a. If any 6-minute average opacity reading in the most recent performance test exceeds 50% of the applicable opacity limit, a new performance test shall be conducted within 90 operating days of the date that the previous performance test was required to be completed.
- b. Performance testing shall be repeated within 12 months of the date that the previous performance test was required to be completed, if the six-minute averages from the previous test were equal to or less than 50% of the applicable opacity standard.

One copy of the test results shall be submitted to the Director, Southwest Regional Office within 60 days after test completion.

(9VAC5-80-110 and Condition 30 of the 6/17/2022 NSR permit for Reg. No. 10818)

## Recordkeeping

135. Dismal River Terminal Equipment Requirements - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
- a. The annual throughput of coal processed by the supplemental clean coal processing line (T-22 – T-27, T-29, T-42A – T-42E, T-43, T-48, T-CC2, and T-CC2A) as limited in Condition 114, calculated monthly as the sum of each consecutive 12-month period.
  - b. The annual throughput of coal to the belt conveyors (T-31 and T-32) as limited in Condition 115, calculated monthly as the sum of each consecutive 12-month period.
  - c. The combined annual throughput of coke breeze to the rod mills (T-RM1 and T-RM2) as limited in permit Condition 116, calculated monthly as the sum of each consecutive 12-month period.
  - d. The combined annual throughput of coal delivered by truck and by rail as limited in Condition 117, calculated monthly as the sum of each consecutive 12-month period.
  - e. The annual throughput of coke to the screener (T-MS4) as limited in Condition 118, calculated monthly as the sum of each consecutive 12-month period.
  - f. The annual rail load-out of coke by the stacker conveyor (T-CL) as limited in Condition 119, calculated monthly as the sum of each consecutive 12-month period.
  - g. Results of all VEE performance tests.
  - h. A logbook for NSPS equipment subject to Subpart Y (after May 27, 2009) as detailed in Condition 136 of this permit.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 and Condition 31 of the 6/17/2022 NSR permit for Reg. No. 10818)

136. Dismal River Terminal Equipment Requirements - The permittee shall maintain a logbook (written or electronic) on-site in accordance with 40 CFR 60.258(a) and make it available upon request. The logbook shall record the following (for the post 5/27/2009 NSPS Y affected facilities identified in the equipment list):
- a. The manufacturer's recommended maintenance procedures and the date and time of any maintenance and inspection activities and the results of those activities. Any variance from manufacturer recommendation, if any, shall be noted.
  - b. The date and time of periodic coal preparation and processing plant visual observations, noting those sources with visible emissions along with corrective actions taken to reduce visible emissions. Results from the actions shall be noted.
  - c. The amount of coal processed each calendar month, as detailed in Conditions 114 and 115.

- d. Monthly certification that the dust suppressant systems were operational when any coal was processed, and that manufacturer's recommendations were followed for all control systems. Any variance from the manufacturer's recommendations, if any, shall be noted.

(9VAC5-80-110 and Condition 32 of the 6/17/2022 NSR permit for Reg. No. 10818)

## Reporting

137. Dismal River Terminal Equipment Requirements - Within 60 days after completing each VEE, the permittee shall submit a summary copy of the test results to:

United States Environmental Protection Agency  
Energy Strategies Group  
109 TW Alexander DR  
Mail code: D243-01  
RTP, NC 27711

(9VAC5-80-110 and Condition 33 of the 6/17/2022 NSR permit for Reg. No. 10818)

138. Dismal River Terminal Equipment Requirements - The permittee shall furnish written notification to the Director, Southwest Regional Office of:

- a. The actual date on which the addition of the Hopper/Feeder #5 (T- 42E), commenced within 30 days after such date.
- b. The actual start-up date of the Hopper/Feeder #5 (T- 42E) when processing coke within 15 days after such date.
- c. The actual start-up date of the Hopper/Feeder #5 (T- 42E) when processing coal within 15 days after such date.
- d. The anticipated date of performance tests of the Hopper/Feeder #5 (T-42E) postmarked at least 30 days prior to such date.

(9VAC5-80-110 and Condition 35 of the 6/17/2022 NSR permit for Reg. No. 10818)

## Insignificant Emission Units

139. Insignificant Emission Units - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
2	Coal Storage Pile #1	720B	PM10	20,000 tons
3	Coal/Coke Storage Pile #2	720B	PM10	20,000 tons
09g	Coke Transfer Chute	720B	PM10	600 tons/hr
09h	Coke Truck Loadout Conveyor	720B	PM10	600 tons/hr
09i	Coke Truck Loadout	720B	PM10	600 tons/hr

<b>Emission Unit No.</b>	<b>Emission Unit Description</b>	<b>Citation</b>	<b>Pollutant Emitted (5-80-720 B.)</b>	<b>Rated Capacity (5-80-720 C.)</b>
11	Main Coke Storage Pile	720B	PM10	140,000 tons
12	Blending Coal/Coke Storage Piles	720B	PM10	500 tons
14	Quench Pit Sludge Storage Piles	720B	PM10	500 tons
17	Quench Dippings	720B	PM10	50 T/hr
18	Baghouse Dust Loadout	720B	PM10	50 T/hr
19	Freeze Treatment Storage Tank	720B	VOC	6,000 gallons
20	Diesel Tank	720B	VOC	10,000 gallons
21	Miscellaneous General Painting	720B	VOC	< 1000 gal/yr total
29	Diesel Lances for In-service Ovens	720B	NO <sub>x</sub> , SO <sub>2</sub> , CO, VOC, PM10	200,000 gallons
30	Ceramic Welding	720B	PM10	75 tons
32	Natural Gas Lances for In-service Ovens	720C	NO <sub>x</sub> , SO <sub>2</sub> , CO, VOC, PM10	< 10 MMBtu/hr
T-50	Diesel Tank	720B	VOC	10,000 gallons
T-51	Diesel Tank	720B	VOC	2,000 gallons
T-52	Portable Diesel Tanks	720B	VOC	100 gal (2) and 75 gal (1)
T-54	Portable Diesel Heaters (2)	720C	NO <sub>x</sub> , SO <sub>2</sub> , CO, VOC, PM10	1 MMBtu/hr, each
T-55	Pond Dippings	720B	---	N/A

Note: AST = aboveground storage tank

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110. (9VAC5-80-110)

## Permit Shield & Inapplicable Requirements

140. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

<b>Citation</b>	<b>Title of Citation</b>	<b>Description of Applicability</b>
None		

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for

any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act or (ii) the DEQ pursuant to §10.1-1307.3 or §10.1-1315 of the Virginia Air Pollution Control Law.  
(9VAC5-80-110 and 9VAC5-80-140)

## General Conditions

141. General Conditions - Federal Enforceability - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9VAC5-80-110)

142. General Conditions - Permit Expiration

- a. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent with 9VAC5-80-80 has been submitted to the Department by the owner, the right of the facility to operate shall be terminated upon permit expiration.
- b. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
- c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the DEQ takes final action on the application under 9VAC5-80-150.
- d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
- e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the DEQ fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110, and 9VAC5-80-170)

143. General Conditions - Recordkeeping and Reporting - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- The date, place as defined in the permit, and time of sampling or measurements;
  - The date(s) analyses were performed;
  - The company or entity that performed the analyses;
  - The analytical techniques or methods used;
  - The results of such analyses; and
  - The operating conditions existing at the time of sampling or measurement.
- (9VAC5-80-110)
144. General Conditions - Recordkeeping and Reporting - Records of all monitoring data and support information shall be retained for at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- (9VAC5-80-110)
145. General Conditions - Recordkeeping and Reporting - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
- The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
  - All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
    - Exceedance of emissions limitations or operational restrictions;
    - Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
    - Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
  - If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."
- (9VAC5-80-110 F)
146. General Conditions - Annual Compliance Certification - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a

schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3\_APD\_Permits@epa.gov

(9VAC5-80-110)

147. General Conditions - Permit Deviation Reporting - The permittee shall notify the Director, Southwest Regional Office, within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 146 of this permit. (9VAC5-80-110 F.2 and 9VAC5-80-250)

148. General Conditions - Failure/Malfunction Reporting - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Southwest Regional Office by facsimile transmission, telephone or telegraph of

such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Southwest Regional Office. (9VAC5-80-110 and 9VAC5-20-180)

149. General Conditions - Severability - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.  
(9VAC5-80-110)
150. General Conditions - Duty to Comply - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.  
(9VAC5-80-110)
151. General Conditions - Need to Halt or Reduce Activity not a Defense - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
(9VAC5-80-110)
152. General Conditions - Permit Modification - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.  
(9VAC5-80-110, 9VAC5-80-190, and 9VAC5-80-260)
153. General Conditions - Property Rights - The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9VAC5-80-110)
154. General Conditions - Duty to Submit Information - The permittee shall furnish to the DEQ, within a reasonable time, any information that the DEQ may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permit and, for information claimed to be



confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality.  
(9VAC5-80-110)

155. General Conditions - Duty to Submit Information - Any document (including reports) required in a permit condition to be submitted to the DEQ shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.  
(9VAC5-80-110)

156. General Conditions - Duty to Pay Permit Fees - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.  
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)

157. General Conditions - Fugitive Dust Emission Standards - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-80-110 and 9VAC5-50-90)

158. General Conditions - Startup, Shutdown, and Malfunction - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are

being used will be based on information available to the DEQ, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.  
(9VAC5-80-110 and 9VAC5-50-20 E)

159. General Conditions - Alternative Operating Scenarios - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.  
(9VAC5-80-110)
160. General Conditions - Inspection and Entry Requirements - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
  - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
  - d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
- (9VAC5-80-110)
161. General Conditions - Reopening for Cause - The permit shall be reopened by the DEQ if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:
- a. The permit shall be reopened if the DEQ or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - b. The permit shall be reopened if the administrator or the DEQ determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

- c. The permit shall not be reopened by the DEQ if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.  
(9VAC5-80-110)

162. General Conditions - Permit Availability - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.  
(9VAC5-80-110 and 9VAC5-80-150)

163. General Conditions - Transfer of Permits

- a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
- b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the DEQ of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
- c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the DEQ of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.  
(9VAC5-80-110 and 9VAC5-80-160)

164. General Conditions - Permit Revocation or Termination for Cause - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects, or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The DEQ may suspend, under such conditions and for such period of time as the DEQ may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.  
(9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)

165. General Conditions - Duty to Supplement or Correct Application - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.  
(9VAC5-80-110 and 9VAC5-80-80 E)

166. General Conditions - Stratospheric Ozone Protection - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
(9VAC5-80-110 and 40 CFR Part 82)
167. General Conditions - Asbestos Requirements - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).  
(9VAC5-60-70 and 9VAC5-80-110)
168. General Conditions - Accidental Release Prevention - If the permittee has more or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
(9VAC5-80-110 and 40 CFR Part 68)
169. General Conditions - Changes to Permits for Emissions Trading - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9VAC5-80-110)
170. General Conditions - Emissions Trading - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
  - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
  - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
- (9VAC5-80-110)

## **Source Testing Report Format**

### Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used by source in permit or registration)
3. Tester; name, address, and report date

### Certification

1. Signed by team leader / certified observer (include certification date)
- \*2. Signed by reviewer

### Introduction

1. Test purpose
2. Test location, type of process
3. Test dates
- \*4. Pollutants tested
5. Test methods used
6. Observers' names (industry and agency)
7. Any other important background information

### Summary of Results

1. Pollutant emission results / visible emissions summary
2. Input during test vs. rated capacity
3. Allowable emissions
- \*4. Description of collected samples, to include audits when applicable
5. Discussion of errors, both real and apparent

### Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Process and control equipment data

### \* Sampling and Analysis Procedures

1. Sampling port location and dimensioned cross section
2. Sampling point description
3. Sampling train description
4. Brief description of sampling procedures with discussion of deviations from standard methods
5. Brief description of analytical procedures with discussion of deviation from standard methods

### Appendix

- \*1. Process data and emission results example calculations
2. Raw field data
- \*3. Laboratory reports
4. Raw production data
- \*5. Calibration procedures and results
6. Project participants and titles
7. Related correspondence
8. Standard procedures

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\* Not applicable to visible emission evaluations.

## **ATTACHMENT A**

### **Graph of Dryer Hours, Coal Sulfur, and Charge Tonnage**

# Dryer Hours, Coal Sulfur and Charge Tonnage

Attachment A

